

MCUF-651

Chemical Properties

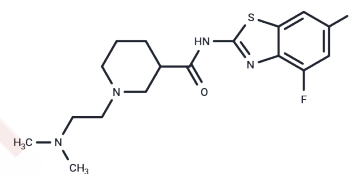
CAS No. : 2747162-85-0

Formula: C₁₇H₂₂F₂N₄O₅

Molecular Weight: 368.44

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	MCUF-651 is a guanylyl cyclase A receptor positive allosteric modulators, EC ₅₀ =0.45 μM.
Targets(IC ₅₀)	Guanylate cyclase

Solubility Information

Solubility	DMSO: 55 mg/mL (149.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.43 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7141 mL	13.5707 mL	27.1415 mL
5 mM	0.5428 mL	2.7141 mL	5.4283 mL
10 mM	0.2714 mL	1.3571 mL	2.7141 mL
50 mM	0.0543 mL	0.2714 mL	0.5428 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sangaralingham SJ, et al. Discovery of small molecule guanylyl cyclase A receptor positive allosteric modulators. Proc Natl Acad Sci U S A. 2021 Dec 28;118(52):e2109386118.

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